

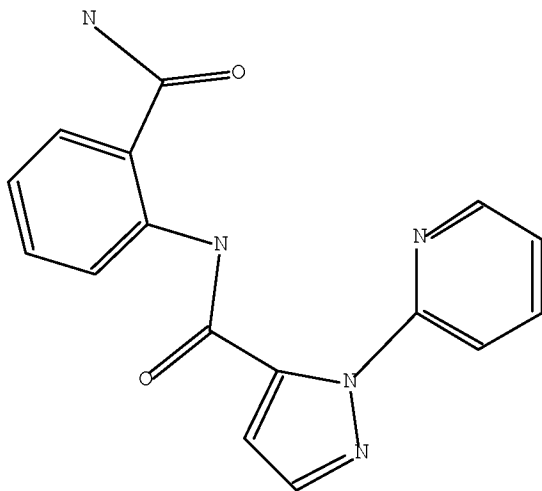
L1 STRUCTURE UPLOADED

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



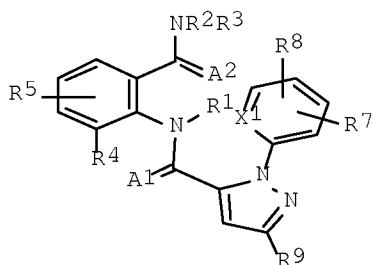
L2 E ACRINATHRIN/CN  
SET EXPAND CONTINUOUS  
1 S E3  
E BETACYFLUTHRIN/CN  
E ?CYFLUTHRIN/CN  
E CYFLUTHRIN/CN  
L3 1 S E39  
E CYPERMETHRIN/CN  
L4 1 S E51  
E DELTAMETHRIN/CN  
L5 1 S E63  
E LAMBDA?CYHALOTHRIN/CN  
E LAMBDA-CYHALOTHRIN/CN  
L6 1 S E87  
E TAUFLUVALINATE/CN  
E TAU-FLUVALINATE/CN  
L7 1 S E111  
E GAMMA-CYHALOTHRIN/CN  
L8 1 S E123  
L9 50 S L1 SSS SAM  
L10 151660 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:59:27 ON 15 JUL 2010

L11 170 S L10 AND (L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8)

L12 8 S L11 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)

L12 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
GI



I

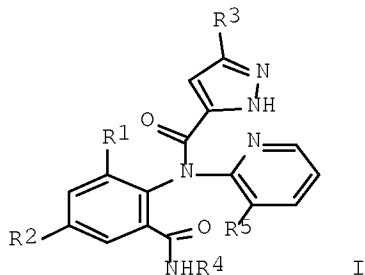
AB Synergistic insecticidal combinations comprise anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted NH; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)cycloalkyl, (un)substituted Ph, benzyl, PhO, etc; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R7 = H, halo (halo)alkyl, (halo)alkoxy, etc.; R9 = haloalkyl, haloalkoxy, haloalkylsulfinyl or halo] and pyrethroids.

ACCESSION NUMBER: 2005:470211 CAPLUS Full-text  
DOCUMENT NUMBER: 143:2640  
TITLE: Synergistic insecticidal combinations  
comprising  
anthranilic acid amides and pyrethroids.  
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,  
Ruediger;  
Hungenberg, Heike; Andersch, Wolfram;  
Thielert,  
Wolfgang; Kraus, Anton  
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.    | KIND  | DATE     | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|------|
| WO 2005048713 | A1  | 20050602 | WO 2004-EP12330 |      |
| 20041030 <--  |   |          |                 |      |
| W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, |          |                 |      |

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,  
 SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
 ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
 ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,  
 DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT,  
 RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE,  
 SN, TD, TG  
 DE 102004021564 A1 20050707 DE 2004-102004021564  
 20040503 <--  
 AU 2004290502 A1 20050602 AU 2004-290502  
 20041030 <--  
 EP 1686859 A1 20060809 EP 2004-791083  
 20041030 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,  
 MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 CN 1882245 A 20061220 CN 2004-80033692  
 20041030 <--  
 BR 2004016560 A 20070123 BR 2004-16560  
 20041030 <--  
 JP 2007510683 T 20070426 JP 2006-538722  
 20041030 <--  
 RU 2381651 C2 20100220 RU 2006-120438  
 20041030 <--  
 IN 2006DN02516 A 20070406 IN 2006-DN2516  
 20060504 <--  
 MX 2006005262 A 20060720 MX 2006-5262  
 20060510 <--  
 ZA 2006003764 A 20070926 ZA 2006-3764  
 20060511 <--  
 KR 2006126498 A 20061207 KR 2006-711507  
 20060612 <--  
 US 20080070863 A1 20080320 US 2007-579076  
 20070928 <--  
 PRIORITY APPLN. INFO.: DE 2003-10353280 A  
 20031114 <--  
 DE 2004-102004021564A  
 20040503 WO 2004-EP12330 W  
 20041030

L12 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
 GI



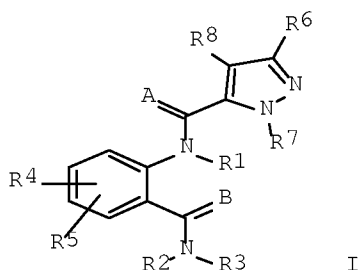
AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO<sub>2</sub>, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, NO<sub>2</sub>, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared. Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)<sub>2</sub> and cat. DMF in CH<sub>2</sub>Cl<sub>2</sub> to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me<sub>2</sub>CHNH<sub>2</sub> to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave ≤10% feeding damage.

ACCESSION NUMBER: 2003:261833 CAPLUS [Full-text](#)  
DOCUMENT NUMBER: 138:287669  
TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides  
INVENTOR(S): Zimmerman, William Thomas  
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
SOURCE: PCT Int. Appl., 46 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|------|
| WO 2003027099 | A1   | 20030403 | WO 2002-US28274 |      |
| 20020906 <--  |      |          |                 |      |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

CH, CN,  
 GE, GH,  
 LK, LR,  
 OM, PH,  
 TT, TZ,  
 RW: UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 AZ, BY, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 EE, ES, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 BJ, CF, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF,  
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 AU 2002332864 A1 20030407 AU 2002-332864  
 20020906 <--  
 AU 2002332864 B2 20070705  
 EP 1438305 A1 20040721 EP 2002-799567  
 20020906 <--  
 EP 1438305 B1 20060823  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,  
 MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 BR 2002012695 A 20041019 BR 2002-12695  
 20020906 <--  
 CN 1556806 A 20041222 CN 2002-818570  
 20020906 <--  
 CN 1279038 C 20061011  
 JP 2005505576 T 20050224 JP 2003-530687  
 20020906 <--  
 ES 2271371 T3 20070416 ES 2002-799567  
 20020906 <--  
 US 20040186141 A1 20040923 US 2004-485093  
 20040126 <--  
 US 7179824 B2 20070220  
 IN 2004MN00089 A 20050429 IN 2004-MN89  
 20040205 <--  
 MX 2004002647 A 20040607 MX 2004-2647  
 20040319 <--  
 PRIORITY APPLN. INFO.: US 2001-324011P P  
 20010921 <--  
 WO 2002-US28274 W  
 20020906 <--



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

ACCESSION NUMBER: 2003:242097 CAPLUS Full-text

DOCUMENT NUMBER: 138:267201

TITLE: Pesticidal compositions for coating plant propagation

material containing anthranilamides  
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

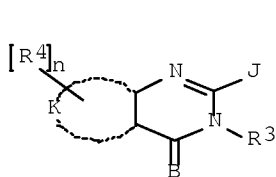
PATENT INFORMATION:

| PATENT NO.    | KIND  | DATE     | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|------|
| WO 2003024222 | A1  | 20030327 | WO 2002-US30302 |      |
| 20020910 <--  |   |          |                 |      |
| W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, |          |                 |      |
|               | CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, |          |                 |      |
|               | GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, |          |                 |      |
|               | LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, |          |                 |      |
|               | PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, |          |                 |      |

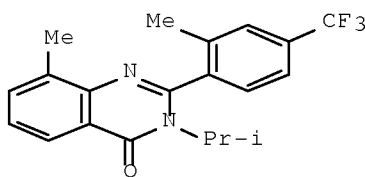
|                |   |          |                  |
|----------------|---|----------|------------------|
|                | UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW                  |          |                  |
| RW:            | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, |          |                  |
| AZ, BY,        |   |          |                  |
|                | KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, |          |                  |
| EE, ES,        |   |          |                  |
|                | FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, |          |                  |
| BJ, CF,        |   |          |                  |
|                | CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG      |          |                  |
| TW 283164      | B   | 20070701 | TW 2002-91118199 |
| 20020813 <--   |   |          |                  |
| CA 2458163     | A1  | 20030327 | CA 2002-2458163  |
| 20020910 <--   |   |          |                  |
| AU 2002341819  | B9  | 20030401 | AU 2002-341819   |
| 20020910 <--   |   |          |                  |
| AU 2002341819  | A1  | 20030401 |                  |
| AU 2002341819  | B2  | 20070719 |                  |
| EP 1427285     | A1  | 20040616 | EP 2002-775972   |
| 20020910 <--   |   |          |                  |
| EP 1427285     | B1  | 20070822 |                  |
| R:             | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, |          |                  |
| MC, PT,        |   |          |                  |
|                | IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  |          |                  |
| BR 2002012993  | A   | 20040817 | BR 2002-12993    |
| 20020910 <--   |   |          |                  |
| JP 2005502716  | T   | 20050127 | JP 2003-528126   |
| 20020910 <--   |   |          |                  |
| JP 3770495     | B2  | 20060426 |                  |
| HU 2004001893  | A2  | 20050128 | HU 2004-1893     |
| 20020910 <--   |   |          |                  |
| HU 2004001893  | A3  | 20051128 |                  |
| NZ 532269      | A   | 20051028 | NZ 2002-532269   |
| 20020910 <--   |   |          |                  |
| CN 1713819     | A   | 20051228 | CN 2002-818578   |
| 20020910 <--   |   |          |                  |
| CN 100539840   | C   | 20090916 |                  |
| RU 2292138     | C2  | 20070127 | RU 2004-111986   |
| 20020910 <--   |   |          |                  |
| AT 370656      | T   | 20070915 | AT 2002-775972   |
| 20020910 <--   |   |          |                  |
| PT 1427285     | E   | 20071127 | PT 2002-775972   |
| 20020910 <--   |   |          |                  |
| ES 2291500     | T3  | 20080301 | ES 2002-775972   |
| 20020910 <--   |   |          |                  |
| IL 159947      | A   | 20091224 | IL 2002-159947   |
| 20020910 <--   |   |          |                  |
| ZA 2004000413  | A   | 20050120 | ZA 2004-413      |
| 20040120 <--   |   |          |                  |
| US 20040209923 | A1  | 20041021 | US 2004-485125   |
| 20040126 <--   |   |          |                  |
| US 7696232     | B2  | 20100413 |                  |
| IN 2004MN00090 | A   | 20070706 | IN 2004-MN90     |
| 20040205 <--   |   |          |                  |
| IN 218482      | A1  | 20080509 |                  |
| MX 2004002648  | A   | 20040607 | MX 2004-2648     |
| 20040319 <--   |   |          |                  |
| KR 783260      | B1  | 20071206 | KR 2004-704134   |
| 20040320 <--   |   |          |                  |

|                        |    |          |                   |
|------------------------|----|----------|-------------------|
| IN 2005MN00443         | A  | 20050930 | IN 2005-MN443     |
| 20050517 <--           |    |          |                   |
| IN 218604              | A1 | 20080509 |                   |
| US 20100152194         | A1 | 20100617 | US 2010-711285    |
| 20100224 <--           |    |          |                   |
| PRIORITY APPLN. INFO.: |    |          | US 2001-323941P P |
| 20010921 <--           |    |          |                   |
|                        |    |          | WO 2002-US30302 W |
| 20020910 <--           |    |          |                   |
|                        |    |          | US 2004-485125 A3 |
| 20040126               |    |          |                   |

L12 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
GI



I



II

AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (*Plutella xylostella*)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

|                   |  |
|-------------------|--|
| ACCESSION NUMBER: | 2002:465981 CAPLUS <u>Full-text</u>  |
| DOCUMENT NUMBER:  | 137:47212  |
| TITLE:            | Preparation of quinazolinones and<br>pyridopyrimidinones   |
| INVENTOR(S):      | for controlling invertebrate pests<br>Annis, Gary David; Myers, Brian James; Selby,<br>Thomas<br>Paul; Stevenson, Thomas Martin; Zimmerman,<br>William<br>Thomas |



PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 180 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------|
| WO 2002048115   | A2   | 20020620 | WO 2001-US46629 |      |
| 20011203 <--  |      |          |                 |      |
| WO 2002048115   | A3   | 20020906 |                 |      |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                 |      |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |      |
| WO 2002048115   | A2   | 20020620 | WO 2001-XA46629 |      |
| 20011203 <--  |      |          |                 |      |
| WO 2002048115   | A3   | 20020906 |                 |      |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                 |      |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |      |
| WO 2002048115   | A2   | 20020620 | WO 2001-XB46629 |      |
| 20011203 <--  |      |          |                 |      |
| WO 2002048115   | A3   | 20020906 |                 |      |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,  |      |          |                 |      |

GE, GH,  
 LK, LR,  
 PH, PL,  
 UA, UG,  
 US, UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT,  
 BE, CH,  
 SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
 TD, TG  
 AU 2002027243 A 20020624 AU 2002-27243  
 20011203 <--  
 EP 1341772 A2 20030910 EP 2001-996125  
 20011203 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,  
 MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 JP 2004515543 T 20040527 JP 2002-549646  
 20011203 <--  
 US 20040110777 A1 20040610 US 2003-433368  
 20031014 <--  
 PRIORITY APPLN. INFO.: US 2000-254614P P  
 20001211 <--  
 WO 2001-US46629  
 20011203 <--

E FUNKE CHRIS?/AU  
 L13 88 S E133-137  
 L14 16 S L13 AND L10  
 L15 6 S L14 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L16 5 S L15 NOT L12  
 E FISCHER REINER?/AU  
 L17 430 S E146-151  
 L18 14 S L17 AND L10  
 L19 6 S L18 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L20 5 S L19 NOT L12  
 L21 0 S L20 NOT L16  
 E FISCHER RUDIGER?/AU  
 L22 18 S E157-158  
 L23 0 S L22 AND L10  
 E HUNGENBERG HEIKE?/AU  
 L24 133 S E169-170  
 L25 35 S L24 AND L10  
 L26 6 S L25 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L27 0 S L26 NOT (L12 OR L16)  
 E ANDERSCH WOLFRAM?/AU  
 L28 121 S E181-182  
 L29 20 S L28 AND L10  
 L30 6 S L29 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)  
 L31 0 S L30 NOT (L12 OR L16)  
 E KRAUS ANTON?/AU  
 L32 31 S E193-194

|     |   |   |     |     |                                     |
|-----|---|---|-----|-----|-------------------------------------|
| L33 | 9 | S | L32 | AND | L10                                 |
| L34 | 6 | S | L33 | AND | (PY<=2003 OR PRY<=2003 OR AY<=2003) |
| L35 | 0 | S | L34 | NOT | (L12 OR L16)                        |